

16275000 HAIKU STREAM NEAR HEEIA

LOCATION.--Lat 21°24'45", long 157°49'35", Old Hawaiian Datum, Hydrologic Unit 20060000, on left bank, 1.7 mi west of Kaneohe Post Office, and 1.8 mi southwest of Heeia.

DRAINAGE AREA.--0.97 mi².

PERIOD OF RECORD.--January 1914 to October 1919, July 1939 to September 1977, October 1982 to current year.

REVISED RECORDS (FISCAL YEARS).--WSP 935: 1940. WSP 1319: 1916-19(M). WSP 1569: Drainage area. WSP 1719: 1942-43, 1946(M), 1947, 1949, 1951, 1954(M), 1955, 1957-59. WSP 1937: 1940-45(M), 1947(M), 1948-50(P), 1951, 1952(P), 1953(M), 1955-57(P), 1958-59, 1960(M).

GAGE.--Water-stage recorder. Datum of gage is 271.9 ft above mean sea level (levels by City and County of Honolulu). Prior to April 28, 1914, nonrecording gage and April 28, 1914 to October 25, 1919, water-stage recorder, at same site at different datums.

REMARKS.--Records computed by B. Shimizu. Records poor. Honolulu Board of Water Supply has diverted ground water from tunnel in drainage area since 1943.

AVERAGE DISCHARGE (since diversion from tunnel began).--56 years (water years 1944-77, 1983-2004), 2.21 ft³/s, (1,600 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,740 ft³/s, May 2, 1965, gage height, 7.94 ft, from rating curve extended above 57 ft³/s on basis of slope-area measurements at gage heights 3.87 ft, 3.88 ft, and 7.94 ft; minimum, 0.20 ft³/s, July 20, 1957, September 17, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 280 ft³/s and maximum (*):

Date	Time	Discharge	Gage height	Date	Time	Discharge	Gage height
		(ft ³ /s)	(ft)			(ft ³ /s)	(ft)
Nov 29	2100	309	3.14	Feb 27	1445	398	3.34
Dec 7	1600	365	3.27	Aug 4	0600	*417	*3.38
Feb 7	2145	298	3.11				

Minimum discharge, 1.2 ft³/s, on Nov 2-8, Nov 26-28.,

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.3	24	9.2	2.4	3.2	3.1	3.4	2.7	2.4	2.2	2.3
2	1.3	1.2	9.0	34	2.4	5.8	3.0	3.3	3.1	2.5	2.3	2.4
3	1.3	1.2	6.6	14	2.4	3.6	3.1	3.2	2.9	2.4	3.7	2.4
4	1.4	1.2	9.6	5.9	2.5	3.1	3.1	3.3	2.8	2.4	39	2.3
5	e1.4	1.2	11	3.9	2.5	2.9	2.9	3.2	2.8	2.3	4.4	2.3
6	e1.4	1.2	6.2	3.3	2.6	2.8	2.9	3.1	2.9	2.2	3.0	2.2
7	e1.7	1.2	38	2.9	30	2.8	2.8	3.4	2.9	2.2	3.3	2.1
8	e1.5	1.2	9.8	2.6	7.4	2.7	3.3	3.3	2.6	2.2	3.0	2.1
9	e1.7	1.3	6.0	2.6	3.5	2.6	2.9	3.0	2.6	2.2	2.8	2.0
10	e1.5	1.4	4.8	2.7	2.9	2.6	3.0	3.0	2.9	2.2	2.7	2.0
11	e1.7	1.4	4.2	2.7	2.7	3.1	2.7	3.7	2.8	2.3	2.7	1.9
12	e1.7	1.4	4.0	3.1	2.6	3.2	2.9	3.6	2.8	2.2	2.8	2.0
13	e1.5	1.4	3.9	2.9	2.5	3.2	2.8	3.1	2.7	2.2	2.8	1.9
14	e1.5	1.4	3.7	3.8	2.5	3.1	2.6	3.0	2.6	2.2	2.7	2.0
15	e1.5	1.4	3.6	4.0	2.4	2.8	4.3	8.1	2.6	2.2	2.6	1.8
16	e1.5	1.3	3.5	3.3	2.3	2.7	3.7	5.0	2.8	2.2	2.6	1.7
17	e1.5	1.3	3.5	3.1	2.3	2.7	3.2	3.7	2.8	2.2	2.7	1.7
18	e1.5	1.4	3.4	2.9	2.3	2.6	2.8	3.3	2.7	2.2	2.8	1.7
19	e1.4	1.3	3.4	2.8	2.2	2.6	2.7	3.2	2.6	2.2	2.8	1.9
20	e1.4	1.3	3.3	2.7	2.2	2.7	4.9	3.0	2.6	2.2	2.8	1.8
21	e1.4	1.4	3.2	2.6	2.2	6.2	4.3	2.9	2.4	2.1	2.8	1.8
22	e1.4	1.4	3.2	3.7	2.2	4.5	3.8	2.8	2.5	2.1	2.8	1.8
23	e1.4	1.3	3.2	4.9	2.2	4.5	3.5	2.8	2.5	2.1	2.8	1.9
24	e1.4	1.3	3.4	2.8	2.2	3.5	3.4	2.6	2.4	2.2	2.8	1.9
25	e1.4	1.3	3.8	3.1	2.2	3.3	3.2	2.6	2.4	2.1	2.6	1.9
26	e1.4	1.2	3.9	3.1	6.3	3.2	5.3	2.7	2.3	2.2	2.9	1.9
27	1.3	1.2	4.0	2.7	50	3.1	4.3	2.7	2.3	2.2	2.6	1.9
28	1.3	1.2	4.4	2.6	6.1	3.0	3.7	2.7	2.4	2.3	2.4	1.8
29	1.3	54	4.6	2.4	3.7	3.1	3.4	2.7	2.5	2.2	2.2	2.0
30	1.3	32	4.9	2.4	---	4.3	3.4	2.7	2.6	2.2	2.3	1.9
31	1.3	---	6.5	2.4	---	3.3	---	2.7	---	2.2	2.3	---
TOTAL	44.6	122.3	206.6	145.1	159.7	102.8	101.0	101.8	79.5	69.0	122.2	59.3
MEAN	1.44	4.08	6.66	4.68	5.51	3.32	3.37	3.28	2.65	2.23	3.94	1.98
MAX	1.7	54	38	34	50	6.2	5.3	8.1	3.1	2.5	39	2.4
MIN	1.3	1.2	3.2	2.4	2.2	2.6	2.6	2.6	2.3	2.1	2.2	1.7
AC-FT	88	243	410	288	317	204	200	202	158	137	242	118

HAWAII, ISLAND OF OAHU

16275000 HAIKU STREAM NEAR HEEIA—Continued

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2004, BY WATER YEAR (WY)												
MEAN	1.88	2.72	2.67	2.66	2.53	3.15	2.49	2.33	1.43	1.56	1.61	1.50
MAX	11.6	15.7	9.72	9.68	10.7	16.5	13.0	27.3	2.65	3.25	4.24	3.68
(WY)	(1959)	(1966)	(1988)	(1949)	(1955)	(1958)	(1989)	(1965)	(2004)	(1989)	(1967)	(2003)
MIN	0.32	0.33	0.64	0.94	0.86	0.60	0.50	0.51	0.38	0.41	0.56	0.36
(WY)	(1946)	(1946)	(1960)	(1977)	(1963)	(1946)	(1946)	(1961)	(1946)	(1945)	(1961)	(1945)
SUMMARY STATISTICS			FOR 2003 CALENDAR YEAR				FOR 2004 WATER YEAR				WATER YEARS 1944 - 2004	
ANNUAL TOTAL			903.0				1,313.9					
ANNUAL MEAN			2.47				3.59				2.21	
HIGHEST ANNUAL MEAN											4.82	1965
LOWEST ANNUAL MEAN											0.67	1946
HIGHEST DAILY MEAN		65	Sep 11			54	Nov 29			620	May 2, 1965	
LOWEST DAILY MEAN		1.2	Jul 4			1.2	Nov 2			0.29	Jul 13, 1945	
ANNUAL SEVEN-DAY MINIMUM		1.2	Jul 7			1.2	Nov 2			0.29	Oct 19, 1945	
ANNUAL RUNOFF (AC-FT)		1,790				2,610				1,600		
10 PERCENT EXCEEDS		3.5				4.3					2.7	
50 PERCENT EXCEEDS		1.5				2.7					1.5	
90 PERCENT EXCEEDS		1.2				1.4					0.94	

e Estimated